MANITOBA BIRD STUDIES

1744-1983

A BIBLIOGRAPHY By MARTIN K. McNICHOLL

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INTRODUCTION

By North American, and especially Canadian, standards, Manitoba has a long and fascinating ornithological history. Manitoba's interior location prevented settlement and even exploration by people who kept records until recent historical times, but its northern sea coast on Hudson Bay brought Manitoba bird records more typical in time with those of coastal states and provinces on the continent. Early exploration of Hudson Bay resulted in bird reports from northern Manitoba as early as 1771 (Forster 1771), with observations dating back at least to 1767 (Williams 1969). Much of the early material may yet be buried in unpublished notes and letters in the archives of the Hudson's Bay Company and other institutions. The efforts of the Hudson's Bay Record Society in publishing the HBC material have brought some of the early reports into accessible literature. Although some of the birds collected by James Isham of HBC were illustrated in a series of books begun by George Edwards in 1743 (McAtee 1950), those from "Hudson Bay" were not included until the third volume, published in 1750 (Houston 1983). Early reports by many explorers and people who accompanied explorers often contained a few bird notes, and ongoing examination of early exploration journals may yet reveal earlier records, but the report by Dodds (1744) vaguely mentioning eagles to the east of Lake Winnipeg is the earliest I have been able to find that almost certainly can be attributed to present-day Manitoba. The recent trend of reprinting early, obscure trip reports should help researchers sort out the early record.

Many of the early specimens from interior North America were sent to England from forts along the shores of Hudson Bay in Manitoba and Ontario (see Baillie 1946; Houston 1983). Officials of the Hudson's Bay Company stationed along Hudson Bay also supplied many of the earliest sight records (Preble 1902; Baillie 1946; Allen 1951; Glover in Williams 1969), but the localities of their observations and collections in modern terms cannot always be readily ascertained. Many of these early records were referred to simply as "Hudson's Bay," a term applied to parts of modern-day Manitoba, Ontario, Quebec and Northwest Territories. Furthermore, the term was not restricted to the vicinity of the bay, but also included land owned by the Hudson's Bay Company, including Alberta and Saskatchewan in addition to the provinces and territories listed above. Thus, type localities of several species long attributed to Manitoba were in fact far from the bay in present-day Saskatchewan (Houston and Street 1959). An excellent review of much of this early material was recently completed by Houston (1983), wherein much of the earlier confusion is documented.

In the latter part of the nineteenth and early part of the twentieth centuries, information on birds in southern Manitoba increased markedly as explorers crossed the prairies and wrote accounts of varying quality on their trips. These included such notable observers as Thomas Blakiston who travelled with the Palliser expedition, Elliott Coues who travelled with the Canada-US Boundary Commission, Henry Youle Hind and the noted botanist, John Macoun. Others who visited the province during this period included several egg collectors, notably E. A. Arnold and Walter Raine. In addition to reports by these early visitors, biographies and assessments of their records are becoming increasingly available (see Appendices 1 and 2).

The turn of the century also brought the beginnings of European settlement of the prairies, and several early settlers were naturalists. Among these were George Atkinson of Portage la Prairie, Hamilton M. Laing who lived near Oak Lake then but moved later to British Columbia where he died at the age of 99 in 1982 after completing a biography of Major Allan Brooks. Undoutedly the best known was Ernest Thompson Seton who settled near Carberry in 1882. Seton wrote numerous notes and articles on birds in Manitoba, both for scientific and lay audiences, including the first (and to date, only) "Birds of Manitoba", published under the name Ernest E. Thompson in 1891 and reprinted in 1975 and again in 1980. Seton overlapped in time the Criddles of Aweme, whose story has recently been chronicled by Alma Criddle (1973). Several members of the Criddle family were interested in nature and Norman and Stuart both published frequently, Norman especially contributing to the ornithological literature.

Interest in natural history grew, especially after A. G. ("Lawrie") Lawrence began a newspaper column on birds in the Winnipeg Free Press in 1921. Lawrence continued to write his column weekly until 1955 when a stroke temporarily incapacitated him. From the 1920's until the early 1960's, Lawrence dominated ornithological activities in the province and his column, "Chickadee Notes", remains the single most important source of information on birds during the period in which he wrote it. Contemporaries of Lawrence included Charles L. Broley, Bertam W. Cartwright, Victor Latta, Edward Robinson, Fred J. Rogers, Angus H. and Terry M. Shortt, Percy A. Taverner and many others. Lawrence's influence was not confined to Manitoba, as his column often included information from adjacent parts of Saskatchewan and Ontario, notably those of A. E. Allin at the "Lakehead" (Thunder Bay), Ontario, and E. Manley Callin in Saskatchewan's Qu'Appelle Valley. He has also been credited as an important influence in the founding of the Blue Jay and was widely acknowledged in scientific research papers.

The great number of newsletters and journals now available for publication has reduced the role of newspaper columns as central to the documentation of bird records, but they continue to provide base-line information which may prove important in establishing long-term trends, and are often the first or only documentation of a specific sighting of a rarity. "Chickadee Notes" continued to serve this function for several years under the pen of the late Harold Mossop and is continued by David R. M. Hatch. The now-defunct Winnipeg Tribune also ran a bird column for several years, "Wild Wings", written by B. W. Cartwright, Angus H. Shortt, Harold V. Hosford and, finally, Ken Gardner. In addition to "Chickadee Notes", the Winnipeg Free Press also published a more general nature column, "Wildlife Notebook", by R. W. (Dick) Sutton for a few years.

The ornithological literature from Manitoba is particularly rich from the Delta Marsh on the southern shore of Lake Manitoba, and Churchill and its environs on the shores of Hudson Bay. In 1938 the Delta Waterfowl Research Station was founded at Delta by James Ford Bell, Aldo Leopold, Miles D. Pirnie and William Rowan. A list of ornithologists who have done thesis work at Delta or working in nearby areas out of the Delta Waterfowl Research Station reads like a 'who's who' of North American waterfowl biologists and is not restricted to waterfowl researchers. The station's first director, H. Albert Hochbaum, helped guide the development of many outstanding researchers across the continent. The waterfowl station has been run more recently by Bruce D. J. T. Batt and Peter Ward. In 1967 the University of Manitoba established a second research station west of the waterfowl station. Various students of Roger M. Evans (including this author) and of Spencer G. Sealy from the University of Manitoba have completed studies at this newer station which also hosts researchers from elsewhere.

Completion of the Canadian National Railway line to Churchill in the 1930's brought Arctic tundra within easy reach of North American bird students who quickly flocked back to the locale of the province's earlier bird work. Frank L. Farley from Alberta was among the more prolific authors of this period. Percy A. Taverner and George M. Sutton published an important monograph on Churchill birds in 1934 but it was quicky outdated, and the update by Joseph R. Jehl, Jr. and Blanche A. Smith was badly needed. In turn, the work by Jehl and Smith has been outdated by a proliferation of literature, especially theses and papers by Fred Cooke and his students on work at La Perouse Bay and by accounts of numerous nature tours there. The recent nesting of Ross's Gulls there has heightened interest in this already-popular area and a bird-finding guide has recently been published by James A. Lane and Bonnie Chartier.

The facilities at Delta and the accessible tundra at Churchill have hosted numerous M.Sc. and Ph.D. bird projects, but the Universities of Brandon and Manitoba have not restricted their activities to these localities, and students of Roger M. Evans, Richard C. Rounds and Spencer G. Sealy have conducted academic research throughout the province. Similarly, researchers from other provinces and elsewhere have conducted scientific studies at several localities.

The Manitoba Museum, established in 1932 (see Speechly 1935), and its modern successor, the Manitoba Museum of Man and Nature, has a long history of publications on birds (see especially the papers by R. W. Sutton) and currently houses the Prairie Nest Records Scheme cards. Various departments in the Manitoba and Canadian governments have also produced numerous publications and unpublished reports on birds.

Ducks Unlimited (Canada) is a private organization which has been responsible for both research and habitat preservation in all three prairie provinces, especially on waterfowl and other marsh species. Leitch (1978) recently recounted the history of its work.

The Manitoba Naturalists Society, founded as the Natural History Society of Manitoba in 1920, has long been active in collecting information on the birds of Manitoba (see Davidson _et al_. 1942; McMaster _et al_. 1977). Recently, the Rare Bird Alert (RBA) of the MNS has been especially active and has published a bird-finding guide to a number of sites in the southeastern part of the province (Cleveland _et al_. 1980). The RBA is currently working on an updated "Birds of Manitoba". Manitoba has not had a series of local avifaunal works like those published in Saskatchewan, but in addition to that of Jehl and Smith (1970), the Saskatchewan Natural History Society series includes one title which encompasses the Lyleton area of Manitoba (Knapton 1979).

Amateur experts have long played a key role in advancing the state of ornithological knowledge in Manitoba. One outstanding example of such effort is that of the Bluebird Trail, organized by the late John (Jack) Lane of Brandon. Lane was presented with an honourary D.Sc. from the University of Brandon for this and other ornithological work. The bluebird project has been continued by his widow, Norah, and various amateur and professional colleagues. Reports have been published annually in the _Blue Jay_ and, more recently, in _Sialia_, the journal of the North American Bluebird Society. Lane was chosen for _Sialia_'s first biographical profile (Anonymous 1979) and an annual award is now presented in the names of Jack and Norah Lane by NABS.

The distinction between "amateur" and "professional" in ornithology is generally fuzzy at best. An outstanding study by a professional in his "non-workingW time is that of Great Gray Owls by Robert W. Nero in collaboration with several colleagues, especially Herbert W. R. Copland and photographer Robert R. Taylor. Nero's (1980) book on the owl has won much-deserved praise in both technical and popular literature and seems destined to become an ornithological classic. But the book and a film on the owls are in a sense only progress reports as this splendid study continues, recently under government auspices.

Historical treatises are just beginning to appear in ornithology as a science (e.g., Stresemann 1975; Farber 1982) and no detailed account has yet appeared for Manitoba. In fact, Canada as a whole has been covered only in brief overview articles (Ouellet and Godfrey 1980; Cooke 1981), although Foster (1978) has worked out the beginning of the conservation movement which, of course, includes work with birds. Biographies of Canadian ornithologists are now beginning to appear in book form, including a recent biography of Charles L. Broley (Gerrard 1983) and forthcoming works on Sir John Richardson (Houston in press) and Percy A. Taverner (in preparation by J. Cranmer-Byng).

As more and more ornithological literature is published, the need for a bibliography, listing as many references as possible in one place, becomes more acute. In March of 1975 I was asked to prepare a bibliography of Manitoba birds for the occasion of the ninety-third stated meeting of the American Ornithologists' Union in August of that year in Winnipeg (see Watson 1976). Time did not then permit a full bibliography, but a preliminary version was prepared (McNicholl 1975). I have since been searching more titles and journals, and verifying possible titles--a process accelerated by a contract from the Provincial Museum of Alberta to prepare a bibliography on the birds of that province. The present bibliography contains all verified titles to the end of 1983, although I have undoubtedly missed a few published in obscure sources, and the final 1983 issues of a few journals were not yet available at the time of writing (June 1984). As with the 1975 bibliography, I have not included titles whose Manitoba and/or bird content could not be verified. Such titles will be included in a future supplement or as an addenda in a compilation of post-1983 publications.

A correction to a review by Austin (1976) is needed. Although she was correct in stating that Houston's (1974) book on Hood should have been included, its claim to Manitoba is based on only a few minor Manitoba observations. Most of the observations in that book are from Saskatchewan and the Northwest Territories. Austin (1976) was also inaccurate in stating that Houston lives in Manitoba and, especially, that Hood was buried in the province.

As in the 1975 bibliography, most references are not annotated, but annotations are included if the relevance of the title to Manitoba birds is obscure, if subsequent publications have corrected part of the original, if a particular feature needs to be emphasized, or if a correction is needed. Reprints without revision are not added as new titles, but are included under the original. An appendix lists biographies of Manitoba bird authors and a second appendix serves as an index to junior authors and to biographers of a particular author. A final appendix lists sources searched to date.

In recent years, books on particular groups of birds in North America or the world have proliferated. These have not been listed unless they contain specific new information on Manitoba birds or specific data on specimens collected in the province.

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I am grateful to Ardythe McMaster and the local committee of the 1975 American Ornithologists' Union meeting for the invitation to prepare the initial bibliography. Robert W. Nero encouraged me to revise and complete the project and handled printing arrangements for both editions.

Nero also provided titles of many unpublished provincial government reports for the first edition. Helen Woo added a number of more recent titles. Bruce D. J. T. Batt similarly supplied lists of theses and publications of associates of the Delta Waterfowl Research Station. Others who supplied information on one or more publications and/or provided access to publications otherwise not available included: Herbert W. R. Copland, Fred Cooke, Roger M. Evans, Jon M. Gerrard, Janet Hinshaw of the Joselyn Van Tyne Memorial Library of the Wilson Ornithological Society, C. Stuart Houston, Robert E. Jones, William H. Koonz, Kathy Martin, Robert W. Nero, Ian Robertson, Richard C. Rounds, Anna Sadura, Spencer G. Sealy, and D. Vaughn (Chip) Weseloh.

Most of the original bibliography was compiled while I was at the University of Alberta. Initial work on the revision was primarily at the Royal Ontario Museum in Toronto while I was teaching at Brock University, St. Catharines, Ontario. During this period I enjoyed frequent hospitality from Chip and Linda Weseloh.

The compilation of any bibliography is, of course, primarily a library task and I have enjoyed the co-operation of many librarians whose names I am not likely to learn. I am especially grateful for cheerful help by the staff of the library of the Royal Ontario Museum, both during the initial revision and during more recent efforts. Other libraries that I have visited during the never-ending search between 1975 and early 1984 include those of: Arctic Institute (Calgary), Boreal Institute (Edmonton), Brock University (St. Catharines, Ontario), Canadian Wildlife Service (Edmonton and Saskatoon), Carleton University (Ottawa), Delta Waterfowl Research Station, Guelph University, Long Point Bird Observatory (Port Rowan, Ontario), Manitoba Department of Natural Resources (Winnipeg), Manitoba Museum of Man and Nature, Michigan State University, East Lansing, National Museum of Canada (Ottawa), Parks Canada (Calgary), Provincial Museum of Alberta (Edmonton), Royal Ontario Museum, University of Alberta, University of British Columbia, University of Calgary, University of Houston (Houston, Texas), University of Manitoba, University of Southwestern Louisiana (Lafayette), University of Toronto, University of Western Ontario (London), and Utah State University (Logan).

Dr. C. Stuart Houston's many papers and books on historical natural history and ornithology in western Canada have been, and still are, especially influential in maintaining my interest in the historical and biographical aspects of ornithology. Houston's comments on both the initial Manitoba bibliography and the one from Alberta, his generous hospitality in providing access to his personal library and his always helpful response to numerous questions over the years have all helped make the manuscript more complete.

Final typing was done by Sherryl B. Wilner; Kathie Lambert aided me in proof-reading. The entire manuscript also was proof-read by Evelyn Billington and Robert W. Nero. However, I accept responsibility for all errors, faults and omissions.

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APPENDIX I

BIOGRAPHICAL AND HISTORICAL REFERENCES TO PERSONS CONTRIBUTING TO MANITOBA ORNITHOLOGY

This appendix lists references to biographies of naturalists who have lived in Manitoba and contributed to ornithology directly through publications or indirectly through reporting observations to other authors. Also included are biographies of naturalists from elsewhere who have reported on extensive visits to Manitoba or who have published extensive series of papers with some Manitoba information (e.g., W. W. Cooke and H. C. Oberholser). A few (e.g., W. Ray Salt) have been included on the basis of a single major work including extensive Manitoba data (in the case of Salt, for the most recent version on the Birds of Alberta, which was expanded to include range maps of Saskatchewan and Manitoba). Authors of papers from a single, short visit to Manitoba or of a few systematic papers incidentally using Manitoba specimens are not included. A few historical references in the following list are duplicates of titles in the main bibliography. Such duplication has been done only in cases where the publication contains material important to both lists. Biographies frequently contain minor observations, and any biographer would be remiss in not checking an author's published works for tidbits of information not found in a previous biography.

The following list is alphabetical in order of the authors of the biographies and historical works, not in the order of the subjects of the biographies. However, Appendix 2 lists biographers of each subject of biographies listed here.

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APPENDIX II

INDEX TO JUNIOR AUTHORS AND BIOGRAPHERS

The following index lists all senior authors under which a specific author may be found as a junior author and biographers of a given author as listed in Appendix I. In some cases, broader biographies of historic figures (e.g., explorers) who contributed minor notes to Manitoba ornithology are not included. In addition, I have listed alternate names of a few authors and notes under "see" to papers in which an individual is mentioned as a contributor of notes, as editing an entire paper, or for some other significant contribution in this bibliography. Editors of symposia in which a paper was published are not included. In the following list, "Biography by" indicates at least a biographical note, but not necessarily a full biography.

Abraham, K. F.
Junior author to: Cooke, F.; Jeffries, R. L.

Adams, R.
Junior author to: Pinkowski, B.

Afton, A. D.
Junior author to: Anderson, M. G.; Sargeant, A. B.; Stewart, G. R.

Aldous, S. E.
Junior author to: Kalmbach, E. R.

Aldrich, J. W.
Junior author to: Stewart, R. E.

Allen, A. A.
Junior author to: Kellogg, P. P.

Amadon, D.
Junior author to: Eisenmann, E.

Anderson, D. R.
Junior author to: Burnham, K. P.; Henny, C. J.; Pospahala, R. S.

Anderson, D. W.
Junior author to: Hickey, J. J.

Anderson, M. G.
Junior author to: Caldwell, P. J.

Anderson, R. M.
Biography by: Alcock, F. J.; Russell, L. S.

Ankney, C. D.
Junior author to: Wypkema, R. C. P.

Arbib, R.
Junior author to: Bystrak, D.

Armstrong, F. A. J.
Junior author to: Vermeer, K.

Arnold, E. A.
Biography by: Houston, C. S.; McNicholl, M. K.; Mousley, H.

Arnold, K. A.
Junior author to: Coon, D. W.

Arthur, G. C.
Junior author to: Vaught, R. W.

Austin, O. L., Jr.
see Bent, A. C.

Babb, T. R.
Junior author to: La Roi, G.

Babcock, K. M.
Junior author to: Malecki, R. A.

Baker, A. E. M.
Junior author to: Baker, M. C.

Ball, G.
Junior author to: Hochbaum, G. S.

Banks, R. C.
Junior author to: Eisenmann, E.

Barclay, R.
Junior author to: Shay, J.

Bard, F. C.
see Houston, C. S.
Biography by: McGuiness, F.

Barlow, J. C.
Junior author to: Banks, R. C.

Bartlett, J.
Junior author to: Bartlett, D.

Bartonek, J. C.
Junior author to: Anderson, D. W.; Cornwell, G.; Trauger, D. L.

Batt, B. D. J.
Junior author to: Anderson, M. G.; Bailey, R. O.; Caldwell, P. J.; Cooper, J. A.; Siegfried, W. R.; Ward, P.

Bauman, R.
Junior author to: Lane, J.

Bauman, V.
Junior author to: Lane, J.

Baumgartner, M. H.
Alternate name of: Heydweiller, A. M.
Junior author to: Baumgartner, F.

Bechard, M. J.
Junior author to: Houston, C. S. (in Appendix 1).

Beck, T.
Junior author to: Soper, R. (in Appendix 1).

Beckett, E.
Junior author to: Crosby, J.
Biography by: Shipley, N.

Behls, W. H.
Junior author to: Lies, M. F.

Bennett, G. F.
Junior author to: Greiner, E. C.

Benning, D. S.
Junior author to: Chamberlain, E. B.

Bergman, R. D.
Junior author to: Faaborg, J. R.

Bider, J. R.
Junior author to: Weatherhead, P. J.

Bierman, G. C.
Junior author to: Sealy, S. G.

Bird, R.
Junior author to: Collins, G.

Bird, R. D.
Junior author to: Smith, L. B.
Biography by: Bird, C. D.

Bishop, R. A.
Junior author to: Malecki, R. A.

Black, J. A.
Junior author to: Batt, B. D. J.

Black S.
Junior author to: Lane, Mrs. J.

Blake, E. R.
Junior author to: Eisenmann, E.

Blakiston, T. W.
see Spry, I. M.
Biography by: Houston, C. S.; Spry, I. M.

Blanich, J.
Junior author to: Blanich, S.

Blohm, R. J.
Junior author to: Brace, R. K.

Blokpoel, H.
Junior author to: Gauthier, M. C.

Blunt, B.
Junior author to: Goulden, H.

Boag, D. A.
Junior author to: Young, D. A.

Boben, J. D.
Junior author to: Barber, S. R.

Bock, J. H.
Junior author to: Bock, C. E.

Bondar, G. F.
Junior author to: McLeod, J. A.

Boorman, E.
Junior author to: Campbell, R. C.

Bossenmaier, E. R.
Junior author to: Hochbaum, G. S.; Hochbaum, H. A.; Rusch, D. H.

Bousfield, M. A.
Junior author to: Cooke, F.

Boychuk, R. W.
Junior author to: Giroux, J. F.

Boyd, H.
Junior author to: Cooch, F. G.; Dzubin, A.

Boyd, M.
Junior author to: Kelley, K.

Boyd, R.
Junior author to: Kelley, K.

Brewer, T. M.
Junior author to: Baird, S. F.

Brace, R. K.
Junior author to: Malecki, R. A.

Brewster, G. J.
Junior author to: Stelfox, H. A.

Brodhead, M. J.
Junior author to: Cutright, R. (in Appendix 1).

Broley, C. L.
Junior author to: Anderson, C. P.
Biography by: Bodsworth, F.; Broley, C. L.; Broley, M. J.; Gerrard, J.; Mason, C. R.; Newton, H.; Peterson, R. T.

Brown, A. W. A.
Junior author to: Brown, N. J.

Brown, B.
Alternate name of: Brown, R. J.

Brown, R. J.
Alternate name of: Brown, B.

Brownlee, L. W.
Junior author to: MacKenzie, D. I.

Bruun, B.
Junior author to: Robbins, C. S.

Brydges, C. J.
see Bowsfield, H.

Buchanan, A.
see Fleming, J. H.

Burger, A. E.
Junior author to: Siegfried, W. R.

Burnham, K. P.
Junior author to: Anderson, D. R.; Henny, C. J.

Burt, M. D. B.
Junior author to: McLaughlin, J. D.

Burton, J.
Junior author to: McNeil, R.

Burton, R.
Junior author to: Kelsall, J. R.

Burton, T.
Junior author to: Lane, J.; Lane, Mrs. J.

Busby, D. G.
Junior author to: Goossen, J. P.

Cade, T. J.
Junior author to: Barclay, J. H.

Cadieux, P.
Junior author to: Finney, G. H.

Caldwell, P. J.
Junior author to: Dane, C.; Hochbaum, G. S.; Siegfried, W. R.; Wishart, R. A.

Cameron, D. R.
see Tache, A. A.

Canadian National Parks Branch
Alternate "author" of: National Parks of Canada Branch, Dept. Interior

Carmichael, R.
Junior author to: McKay, I.

Carson, J.
Biography by: Sutton, R. W.

Cartwright, B. W.
Junior author to: Anderson, C. P.; Shortt, A. H.
Biography by: Houston, C. S.; Shortt, A. H.

Cartwright, R.
Junior author to: McMaster, A.

Cassin, J.
Junior author to: Baird, S. F.

Caswell, F. D.
Junior author to: Hochbaum, G. S.; Malecki, R. A.

Cawthorn, R. J.
Junior author to: Gajadhar, A. A.

Chamberlain, M.
see Nuttall, T.

Champion, G.
Junior author to: Anderson, C. P.

Chapman, F. M.
see McNicholl, M. K.
Junior author to: Seton, E. T.
Biography by: Murphy, R. C.

Chartier, A.
Biography by: Lord, J.

Chartier, B.
Biography by: Lord, J.

Christensen, R. E.
Junior author to: Anderson, D. W.

Cink, C.
Junior author to: Kelley, K.

Clark, R. G.
Junior author to: Weatherhead, P. J.

Clark, S. L.
Junior author to: Chamberlain, E. B.

Clemens, W. A.
Junior author to: Munro, J. A.

Clench, M. H.
Junior author to: Banks, R. C.

Cober, J.
Junior author to: Bossenmaier, E. F.

Cochran, W. W.
Junior author to: Sladen, W. J. L.

Cole, T. V.
Junior author to: Buckner, C. H.

Colgen, P. W.
Junior author to: Healey, R. F.

Collias, E. C.
Junior author to: Collias, N. E.

Collias, N. E.
Junior author to: Collias, E. C.; Nice, M. M.

Collins, G.
Junior author to: Hatch, D. R. M.

Collins, K. M.
Junior author to: Sealy, S. G.; Sexton, D. A.

Colls, D. G.
Junior author to: Wellein, E. G.

Congdon, Mrs. R. T.
Junior author to: Congdon, R. T.

Conover, C.
Junior author to: Hellmayr, C. E.

Conover, V. C.
Junior author to: Lynch, J. J.

Cooch, F. G.
see Appendix to Hawkins, A. S. 1949.
Junior author to: Boyd, H.; Dobell, J. V.; Geis, A. D.; Hawkins, A. S.; MacInnes, C. D.; Newell, K. L.; Reeves, H. M.; Wendt, J. S.

Cooke, F.
Junior author to: Abraham, K. F.; Bargiello, T. A.; Cargill, S. M.; Chartier, B.; Colgan, P.; Davies, J. C.; Findlay, C. S.; Finney, G. H.; Geramita, J. M.; Gratto, C. L.; Heagy, M. I.; Mineau, P.; Rockwell, R. F.; Ross, R. K.; Ryder, J. P.; Schmutz, J. K.; Seguin, R. J.

Cooke, M. T.
Biography by: Aldrich, J. W.

Cooke, W. W.
Biography by: Palmer, T. S.

Coombs, R. F.
Junior author to: Greiner, E. C.

Cooper, C. R.
Junior author to: Freemark, K. E.

Cooper, J. A.
Junior author to: Batt, B. D. J.

Cooper, J. C.
Junior author to: Savage, H. G.

Copland, H. W. R.
Junior author to: Hatch, D. R. M.; Nero, R. W.; Smith, G.

Cornwell, G. W.
Junior author to: Batt, B. D. J.; Caldwell, P. J.; Prince, H. H.; Stoudt, I. J.

Cosens, S.
Junior author to: Evans, R. M.

Coues, E.
see Henry, A.
Biography by: Chapman, F. M.; Cutright, R., and M. J. Brodhead; Elliott, D. G.; McAtee, W. L.; Palmer, T. S.; Taylor, J. H.

Cowan, A. B.
Junior author to: Cornwell, G. W.

Cowan, W. F.
Junior author to: Batt, B. D. J.

Cram, B. M.
Junior author to: Pospichal, G.

Crawford, H. G.
Junior author to: Gibson, A. (in Appendix I)

Criddle Family (General)
Biography by: Criddle, A.; Criddle, P.; Scott, C. A.

Criddle, A.
Junior author to: McMaster, A.
Biography by: Criddle, A.

Criddle, N.
Junior author to: Criddle, S.
Biography by: Bird, R. D.; Criddle, A.; Gibson, A. and H. G. Crawford; Lawrence, A. G.; Lloyd, H.; Palmer, T. S.; Scott, C. A.; Spalding, D. A. E.

Criddle, S.
Biography by: Bird, C. D.; Criddle, A.; Scott, C. A.

Crissey, W. F.
Junior author to: Geis, A. D.; Hawkins, A. S.

Cromartie, E.
Junior author to: Stendell, R. C.

Cruttenden, J. R.
Biography by: Knoblock, B. W.

Currie, C.
Junior author to: Hanson, H. C.

Curtis, S. C.
Junior author to: Gauthier, M. C.

Cuthbert, C. W.
Junior author to: Cleveland, N. J.

D'Agincourt, L.
Junior author to: Falls, J. B.

Dane, C. W.
Junior author to: Bartonek, J. C.

Davies, J. C.
Junior author to: Cooke, F.

Davis, D. W.
Junior author to: Whitfield, D. W. A.

Dawson, G. M.
Biography by: G[annett], H.; Harrington, B. J.

De Grazio, J. W.
Junior author to: Bray, O. E.; Royall, W. C., Jr.

Demers, A. M.
Junior author to: Hyslop, C.

Derry, D. R.
see Baillie, J. L., Jr., and Harrington, P.

De Smet, K.
Junior author to: Smith, C.

Devan, G.
Junior author to: Anderson, C. P.

Dick, T. A.
Junior author to: Bober, C. M.

Dickson, H. L.
Junior author to: Brunton, D. F.

Dilger, B.
Junior author to: Arbib, R.

Dillon, S. T.
Junior author to: Hochbaum, H. A.; Howard, J. L.

Dixon, C. C.
Junior author to: Oetting, R. G.; Raveling, D. G.; Trow, J. V.

Dobbs, A.
see Rich, E. E. (in Appendix I)
Biography by: Rich, E. E.

Dow, D.
Junior author to: Clark, J. R.

Dowling, D. B.
Junior author to: Tyrrell, J. B.

Drennan, S. R.
Junior author to: Bystrak, D.
Driver, E. A.
Junior author to: Langford, W. A.

Duvall, A. J.
Junior author to: Aldrich, J. W.

Dzubin, A.
Junior author to: Miller, H. W.; Sterling, T.

Eckelberry, D. R.
Junior author to: Arbib, R. (in Appendix 1)

Elander, M.
Junior author to: Blomquist, S.

England, R. E.
Junior author to: McNicholl, M. K.

Erskine, A. J.
Junior author to: Finney, G. H.; Freemark, K. E.

Etches, R. J.
Junior author to: Campbell, R. R.

Evans, C. D.
Junior author to: Llynch, J. J.; Stewart, R. E.

Evans, R. M.
Junior author to: Cowan, P. J.; Mattson, M. E.; Nitchuk, W. M.;
O'Malley, J. B. E.

Ewan, D.
Junior author to: Ewan, J. (in Appendix 1)

Farley, F. L.
Biography by: Lister, R.; Soper, J. D.; Spalding, D. A. E.

Farmes, R.
Junior author to: Lee, F. B.

Ferguson, E. L.
Junior author to: Chamberlain, E. B.

Findlay, C. S.
Junior author to: Cooke, F.; Rockwell, R. F.

Finlay, J. C.
Junior author to: McNicholl, M. K.

Finney, G. H.
Junior author to: Boyd, H.; Cooke, F.; Freemark, K. E.;
Silieff, E.

Forster, J. R.
see Latham, J.

Forster, R. A.
Junior author to: McNair, D. B.

Foster, J.
Junior author to: Webb, R.

Freemark, K. E.
Junior author to: Finney, G. H.

Frenzel, L. D.
Junior author to: Griffin, C. R.

Friedmann, H.
Junior author to: Aldrich, J. W.; Ridgway, R.

Friedrich, G. W.
Junior author to: Voth, R.

Gabrielson, I. N.
Junior author to: Zinser, J.

Gammell, A. M.
Junior author to: Gammell, R. T.; Royall, W. C., Jr.

Garst, W.
Junior author to: Garst, S (in Appendix I).

Gauthier, M. C.
Junior author to: Blokpoel, H.

Geis, A. D.
Junior author to: Stewart, R. E.

Gentle, G. C.
Junior author to: Adams, G. D.

Gerrard, J. M.
Junior author to: Whitfield, D. W. A.

Gerrard, P.
Junior author to: Gerrard, J. M.

Gerrard, P. N.
Junior author to: Gerrard, J. M.

Gibson, O. P.
Biography by: Shortt, A. H.

Gilbert, A.
Junior author to: Arbib, R. (in Appendix I).

Gillespie, B. C.
Junior author to: Hatch, D. R. M.

Gillespie, M. M.
Junior author to: Malecki, R. A.; Rusch, D. H.; Sexton, D. A.

Gimby, R. A.
Junior author to: Brazda, A. R.

Glover, R.
see Davies, K. G.; Macoun, J. (in Appendix I); Williams, G.

Godfrey, W. E.
Junior author to: Ouellet, H. (in Appendix I).

Gollop, J. B.
Junior author to: Dzubin, A.; Hawkins, A. S.; Munro, D. A.

Goossen, J. P.
Junior author to: McNicholl, M. K.

Gowanlock, J. N.
Junior author to: O'Donoghue, C. H.

Graham, A.
see Hutchins, T.; Pennant, T.; Williams, G.
Biography by: Williams, G.

Green, S.
see "Bird's Tail"

Gresham, A. B.
see Brenckle, J. F.
Junior author to: Haak, A.
Biography by: Soper, J. D.

Grieef, G. D.
Junior author to: Cleveland, N. J.

Griscom, L.
Junior author to: Peters, J. L.

Grossfield, J.
Junior author to: Bargiello, T. A.

Gruchy, I. M.
Junior author to: Keith, J. A.

Guarino, J. L.
Junior author to: Bray, O. E.; Royall, W. C., Jr.

Gunderson, H.
Junior author to: Breckenridge, W. J.

Gunn, D.
see Brewer, T. M.

Gunn, W. W. H.
see Baptista, L. F.
Junior author to: Borror, D. J.; Kellogg, P. P.; Miller, E. H.

Haberman, H. M.
Junior author to: Hays, H.

Hale, P.
Junior author to: Goulden, H.

Hall, C.
Junior author to: Rutherford, G.

Haramis, G. M.
Junior author to: Nichols, J. D.

Harbottle, D. C.
Junior author to: Andrusiak, E. W.

Harmsen, R.
Junior author to: Cooke, F.

Harrington, P.
Junior author to: Baillie, J. L., Jr.

Harris, R. D.
Junior author to: Cartwright, B. W.; Wellein, E. G.

Harris, R. E.
Junior author to: Miller, E. H.

Harrold, C. G.
Junior author to: Cartwright, B. W.
Biography by: Cartwright, B. W. and A. G. Lawrence; Lister, R.

Hatch, D. R. M.
see also Harris, R. D.
Junior author to: Blokpoel, H.; Gerrard, J. M.; Harris, R. D.;
Vermeer, K.

Hatfield, J. P.
Junior author to: Stephen, W. J. D.

Hawkins, A. S.
Junior author to: Aldrich, J. W.; Evans, C. D.; Kiel, W. H., Jr.;
Smith, R. H.

Healey, R. F.
Junior author to: Cooke, F.

Hearne, S.
see Cassin, J.
Biography by: Rich, E. E.

Hellmayr, C. E.
Junior author to: Cory, C. B.

Henny, C. J.
Junior author to: Pospahala, R. S.

Henry, A.
see Coues, E.

Heydweiller, A. M.
Alternate name of: Baumgartner, A. M.

Hickey, J. J.
Junior author to: Anderson, D. W.; Bartonek, J. C.

Hickin, J. R.
Junior author to: Cooper, J. A.

Hines, J. E.
Junior author to: Nichols, J. D.

Hochbaum, G.
Junior author to: Caswell, D.

Hochbaum, H. A.
Junior author to: Borden, R.; Clark, J. R.; Cornwell, G; Howard, J. L.
Biography by: Anonymous; Scott, P.

Hodges, B. I.
Junior author to: Novara, A. N.

Holdsworth, C.
Junior author to: Fox, W.

Holgerson, N. E.
Junior author to: Henny, C. J.

Holland, G. E.
Junior author to: Cleveland, N. J.

Holmes, J.
Junior author to: Holmes, L.

Holmes, R. T.
Junior author to: MacLean, S. F., Jr.

Hood, R.
see Houston, C. S.
Biography by: Houston, C. S.

Hopwood, V. G.
see Thompson, D.

Horch, P. A.
Junior author to: Cleveland, N. J.

Hosford, H. V.
Junior author to: Copland, H.; Nero, R. W.; Smith, G.; Smith, L. B.
Biography by: Anonymous; Press, P. M.

Houston, C. S.
see Thompson, E. E.
Junior author to: Houston, M. I.; Renaud, W. E.

Houston, M. I.
Junior author to: Houston, C. S.

Howard, J.
Junior author to: Goulden, H.

Howard, J. L.
Junior author to: Bryant, J. E.; Hochbaum, H. A.

Howden, H. F.
Junior author to: Kaiser, G. W.

Howell, T. R.
Junior author to: Eisenmann, E.

Hudgins, M. R.
Junior author to: Hansen, H. A.; Martinson, R. K.

Hughes, D. F.
Junior author to: Anderson, D. W.

Humphries, V. M.
see Munro, D. A. (in Appendix 1).

Hussell, D. J. T.
Junior author to: Jehl, J. R., Jr.

Hutchins, T.
see Latham, J.; Pennant, T.; Williams, G.
Biography by: Williams, G.

Hyslop, C.
Junior author to: Wendt, J. S.

Isa, J. M.
Junior author to: Savage, A.

Isham, J.
see Davies, K. G. (in Appendix I); Edwards, G.; McAtee, W. L. (in Appendix I); Rich, E. E.; Stevens, O. A. (in Appendix I)
Biography by: Rich, E. E.

Ivens, L.
Junior author to: Hanson, H. C.

Jacques, F. L.
Junior author to: Jacques, F. P.

Janz, J. J.
Biography by: Hatch, D. R. M.

Jarosz, J.
Junior author to: Breckenridge, W. J.

Jeffries, R. L.
Junior author to: Cargill, S. M.

Jensen, A.
Junior author to: Jeffries, R. L.

Jensen, G. H.
Junior author to: Aldrich, J. W.

Jensen, R. L.
Junior author to: Langowski, D. J.

Jetinski, D. E.
Junior author to: Giroux, J. F.

Johanson, E. B.
Junior author to: Pakulak, A. J.

Johnson, A. M.
Junior author to: Davies, K. G.

Johnson, N. K.
Junior author to: Eisenmann, E.

Jones, R. E.
Junior author to: Bailey, R. O.; Cuthbert, C. W.; Hochbaum, G. S.; Serie, J. R.; Stewart, G. R.; Tacha, T.

Jung, P.
Junior author to: Pinkowski, B.

Kaczynski, C. F.
Junior author to: Martinson, R. K.

Kaiser, G. W.
Junior author to: Cooch, F. G.

Kalmbach, E. R.
Junior author to: Williams, C. S.

Kaminski, R. M.
Junior author to: Murkin, H. R.; Wishart, R. A.

Kaye, B.
Junior author to: Moodie, D. W.

Keith, L. B.
Junior author to: Adamcik, R. S.

Kelsey, H.
see Bell, C. N.

Kendeigh, S. C.
Junior author to: Gillespie, W. L.

Kennard, J. H.
Junior author to: Clapp, R. B.

Kiff, L. F.
Junior author to: Friedmann, H.,

Kimball, C. F.
Junior author to: Rogers, J. P.

King, J. R.
Junior author to: Baptista, L. F.

Kingsley, M. C. S.
Junior author to: Sugden, L. G.

Klimkiewicz, M. K.
Junior author to: Clapp, R. B.

Knapton, R. W.
Junior author to: Cleveland, N. J.; Evans, R. M.; Penny, C.;
Wishart, R. A.

Knock, D.
Junior author to: Lane, J.

Knudsen, B.
Junior author to: Knapton, R. W.; Pakulak, A. J.

Koes, F.
Junior author to: Cleveland, N. J.; Knapton, R. W.;
McNicholl, M. K.

Koonz, W. H. (B.)
Junior author to: Cuthbert, C.; Hatch, D. R. M.

Korschgen, L. J.
Junior author to: Rogers, J. P.

Krause, A. D.
Junior author to: Sargeant, A. B.

Krindle, D. B.
Junior author to: Evans, R. M.

Krivda, W. V.
Biography by: Anonymous.

Kuyt, E.
Junior author to: Smith, A. R.

Laing, H. M.
Biography by: Anonymous; Houston, C. S.

Lamont, S. M.
Junior author to: Harris, W. C.

Lane, J.
see Bent, A. C.
Junior author to: Randall, D.
Biography by: Anonymous; Cruickshank, E. R.; McGuinness, F.; Scott, L.

Lane, Mrs. J.
Alternate name of: Lane, N.

Lane, N.
Alternate name of: Lane, Mrs. J.

Lapi, L.
Junior author to: Kelsall, J. A.

Lapworth, E. D.
Junior author to: Snyder, L. L.

Larche, A.
Junior author to: Bossenmaier, E. F.

L'Arrivee, L. P.
Junior author to: Hatch, D. R. M.

Lauxen, E. Q.
Junior author to: Voelzer, J. F.

Law, J. T.
Junior author to: Cartwright, B. W.

Lawrence, A. G.
see Bent, A. C.; Pettingill, O. S., Jr.
Junior author to: Anderson, C. P.; Davidson, A. M.
Biography by: Houston, C. S.; McNicholl, M. K.; Rowan, W.

Lawrence, G. N.
Junior author to: Baird, S. F.; Cartwright, B. W. (in Appendix I)

Lawrence, S.
Junior author to: McMaster, A.
Biography by: Shortt, A. H.

Lawrie, A. H.
Junior author to: Mowat, F. M.

Leatherland, J. F.
Junior author to: Campbell, R. R.

Lefkovitch, L. P.
Junior author to: Kaiser, G. W.

Leighton, F. A.
Junior author to: Wobeser, G.

Leitch, W. G.
Junior author to: Bossenmaier, E. F.

Lepthien, L. W.
Junior author to: Bock, C. E.

Levine, D.
Junior author to: Hanson, H. C.

Lewis, J.
Junior author to: Wight, H.

Licht, A.
see Davies, K. G.; Edwards, G.

Lincoln, F. C.
Junior author to: Lloyd, H.
Biography by: Gabrielson, I. N.

Little, S. W.
Junior author to: Diduch, A.

Littlefield, C. D.
Junior author to: Pakulak, A. J.; Schmidt, R. K.

Livezey, B. C.
Junior author to: Blohm, R. M.

Livingstone, J. A.
Junior author to: Lansdowne, J. F.

Lloyd, H.
Junior author to: Taverner, P. A.; Zinser, J.
Biography by: Clarke, C. H. D.; Loughrey, H.; Munro, D. A. (with list of publications compiled by V. M. Humphries)

Longcore, J. D.
Junior author to: Stendell, R. C.

Loughrey, A. G.
Junior author to: Stevens, W. F.; Tener, J. S.

Low, J. B.
Junior author to: Anderson, M. G.

Low, S. H.
Junior author to: Aldrich, J. W.

Lowe, C. W.
Junior author to: Davidson, A. M.

Lowery, G. H., Jr.
Junior author to: Eisenmann, E.

Lowes, N.
Junior author to: Anderson, C. P.

Lowther, J. K.
Junior author to: Titman, R. D.

Lumsden, H. G.
Junior author to: Anderson, D. W.; Hanson, H. C.

Lynch, J. J.
Junior author to: Hanson, H. C.

MacFarlane, B.
Junior author to: Rutherford, G.

McFarlane, R. R.
Biography by: Preble, E. A.

MacGregor, H.
Biography by: Carlyle, W. T.

MacInnes, C. D.
Junior author to: Cooke, F.; Prevett, J. P.

MacIntosh, P. J.
Junior author to: Lane, N.

MacKay, G. H.
Junior author to: Bossenmaier, E. F.

MacKenzie, D. I.
Junior author to: McKenzie, C. E.

Mackie, A. H.
Junior author to: Rutherford. G.

Mackie, J.
Junior author to: Rutherford, G.

MacLachlin, D. I.
Junior author to: Walton, K.

Macoun, J.
Biography by: Anderson, R. M.; Gibson, A., F. T. Shutt, and W. T. Macoun; Macoun, J.; M[acoun], W. T.; Spalding, D. A. E.

Macoun, J. M.
Junior author to: Macoun, J.

Macoun, W. T.
Junior author to: Gibson, A. (in Appendix I)

Maher, W. J.
Junior author to: Gerrard, J. M.; Whitfield, D. W. A.

Marshall, W. H.
Junior author to: Bossenmaier, E. F.; Evans, C. D.

Martin, C.
Junior author to: Lane, J.; Lane, Mrs. J.

Martin, T. W.
Junior author to: Rogers, J. P.

Martinson, R. K.
Junior author to: Chamberlain, E. R.; Moisan, G.

Mattson, M. E.
Junior author to: Caswell, D.; Evans, R. M.; Holmstrom, C. C.

Mayoh, K. R.
Junior author to: Zach, R.

Mazyka, L.
Junior author to: Lane, Mrs. J.

McCabe, T. T.
Junior author to: Miller, A. H.

McCarthy, T. H.
Junior author to: Anderson, C. P.

McCoubrey, A. A., Jr.
Junior author to: Anderson, C. P.

McCowan, M.
Junior author to: Lane, Mrs. J.; Robinson, B. A.

McDonald, J. H.
Junior author to: McDonald, D.

McDonald, Mrs. J. H.
Junior author to: McDonald, J. H.

McDougel, K. G.
see Lyon, W. I.

McGrath, C.
Alternate name of: Scott, C. A.

McKay, D. I.
Junior author to: Rusch, D. H.

McKay, W. A.
Junior author to: Wallace, W. S. (in Appendix I).

McKeane, L.
Junior author to: Ranford, A. B.

McKeating, G.
Junior author to: Goodwin, C. E.

McKenzie, C. E.
Junior author to: MacKenzie, D. I.

McLaren, M. A.
Junior author to: McLaren, P. L.

McLaren, P. L.
Junior author to: McLaren, M. A.

McLaughlin, J. D.
Junior author to: Scott, M. E.

McLeach, B. B.
Junior author to: Buckner, C. H.

McLeod, M.
see McDonald, A.

McNally, C. M.
Junior author to: Cooke, F.

McNicholl, M. K.
Junior author to: Copland, H.; Evans, R. M.; Hatch, D. R. M.; Smith, G.
Biography by: Anonymous; Weseloh, D. V. (C.).

McWhorter, R. E.
Junior author to: Goulden, H. D.

Medland, H.
Junior author to: Goodwin, C. E.

Mellen, S. L.
Junior author to: Martinson, R. K.

Mengel, R. M.
Junior author to: Arbib, R. (in Appendix I).

Mewaldt, L. R.
Junior author to: Cortopassi, A. J.

Miller, R. S.
Junior author to: Stephen, W. J. D.

Miller, W.
Junior author to: Lane, J.

Miller, W. P.
Junior author to: Bossenmaier, E. F.

Mineau, P.
Junior author to: Abraham, K. F.; Cooke, F.

Mirsky, P. J.
Junior author to: Cooke, F.

Moir, D. R.
Junior author to: McLeod, J. A.

Monroe, B. L., Jr.
Junior author to: Eisenmann, E.

Moore, D. D.
Junior author to: Bossenmaier, E. F.

Moore, J. P.
Junior author to: Meyer, M. C.

Morrison, R. I. G.
Junior author to: Gratto, C. L.; Harrington, B. A.

Mortimer, W.
Junior author to: Wendt, J. S.

Morton, J. R.
Junior author to: Anderson, C. P.

Mossop, H.
Biography by: Jack, J.

Mulder, N.
Junior author to: McCabe, R. A.

Mulligan, T.
Junior author to: Kelsall, J. P.

Munro, D. H.
Junior author to: Munro, H. L.

Munro, H. L.
Junior author to: Rounds, R. C.

Munro, J. A.
Biography by: Carl, G. C.

Munro, R. E.
Junior author to: Reeves, H. M.

Murdoch, N. F.
Junior author to: Cleveland, N. J.

Murkin, H.
Junior author to: Hochbaum, G. S.

Murphy, W. A.
see Cooper, J. A.

Murray, J.
Junior author to: Murray, J.

Myres, M. T.
Junior author to: Fisher, R. M.; Sadler, T. S.

National Parks of Canada Branch, Dept. Interior
Alternate "author" of: Canadian National Parks Branch

Neily, W. P.
Junior author to: Cleveland, N. J.

Nelson, A.
Junior author to: Cottam, C.

Nero, R. W.
see Thompson, E. E.
Junior author to: Copland, H.; Evans, R. M.; Goulden, H.;
Miller, R. S.; Pittaway, R.; Van Zyll De Jong, C. G.
Biography by: Anonymous (1967, 1977, 1981).

Neufeld, N.
Junior author to: Colls, D. G.

Newcomb, W.
Junior author to: Wellein, E. G.

Newell, K. L.
Junior author to: Cooch, F. G.; Poulin, R. M.; Wendt, J. S.

Nice, C.
Junior author to: Nice, M.

Nice, M. M.
Biography by: Nice, M. M.; Parkes, K. C.; Trautman, M. B.

Nichols, J. D.
Junior author to: Rogers, J. P.

Nieman, D. J.
Junior author to: Wobeser, G.

Norman, E. S.
Biography by: Norman, E. S.

Norman, K. D.
Junior author to: Larned, W. W.; Novara, A. N.; Smith, C. S.;
Smith, M. M.; Voelzer, J. F.

Norman, R. F.
Junior author to: Robertson, R. J.

Norris-Elye, L. T. S.
Junior author to: Davidson, A. M.

Norton, N. W.
Junior author to: Hanson, H. C.

Oberholser, H. C.
Biography by: Aldrich, J. W.

O'Donnell, S. J.
Junior author to: Poulin, R. M.

O'Donoghue, C. H.
Biography by: Neave, F.

Olson, T. A.
Junior author to: Bossenmaier, E. F.

O'Neil, J. P.
Junior author to: Arbib, R. (in Appendix I).

Osborne, D. J.
Junior author to: Wobeser, G.

Pakulak, A. J.
Junior author to: Cooke, F.; Littlefield, C. D.; Schmidt, R. K.
Biography by: Manitoba Chapter of the Wildlife Society

Palmer, E.
Junior author to: Lieska, C. E.

Palmer, R. S.
Junior author to: Grinnell, L. I.

Panzer, E. R.
Junior author to: Mann, G. E.

Parker, J. L.
Biography by: Shay, J.

Parkes, K. C.
Junior author to: Eisenmann, E.

Parsons, G.
Junior author to: Pospichal, G.

Patmore, H.
Junior author to: Lane, Mrs. J.

Patmore, R. H.
Junior author to: Lane, Mrs. J.

Patrick, J. A. M.
see Houston, C. S.

Patterson, L. A.
Junior author to: McLaren, P. L.

Peakal, D. B.
Junior author to: Vermeer, K.

Pearse, H. C.
Junior author to: Anderson, C. P.

Pearson, J.
Junior author to: Welch, H. E.

Pennant, T.
see Latham, J.

Perret, N. C.
Junior author to: Kiel, W. H., Jr.

Peters, B.
Junior author to: Lane, J.

Peters, H. S.
Junior author to: Shortt, T. M.

Peterson, R. T.
Junior author to: Arbib, R. (in Appendix I); Kellogg, P. P.

Picman, A. K.
Junior author to: Picman, J.

Pierce, D.
Junior author to: Arbib, R. (in Appendix I).

Pinel, H. W.
Junior author to: Kondla, N. G.

Pittman, H. H.
Biography by: Houston, C. S.

Pitts, S. M.
Junior author to: Kocan, R. M.

Pohajdak, G.
Biography by: Thorsteinson, G.

Pospahala, R. S.
Junior author to: Brace, R. K.; Henny, C. J.; Nichols, J. D.; Rogers, J. P.

Pospichal, G.
Junior author to: Howard, J.

Poulin, R. M.
Junior author to: Hyslop, C.

Power, D. M.
Junior author to: Barlow, J. C.

Preble, E. A.
Biography by: McAtee, W. L.

Press, P. M.
Biography by: Wrigley, R. E.

Prevett, J. P.
Junior author to: Cooke, F.; Thomas, V. G.

Prince, H. H.
Junior author to: Batt, B. D. J.; Kaminski, R. M.

Rae, J.
see Latham, J.; Rich, E. E.
Biography by: Bruemmer, F.; Cumming, A. B.; R, H.; Richards, R. L.; Swinton, W. E.; Wallace, R. C.; Wallace, W. S., and W. A. McKay.

Raible, H. (A.)
Junior author to: Cooch, F. G.

Raine, W.
see Shufeldt, R. W.
Biography by: Anonymous (Barnes, R. M.); Houston, C. S.; McNicholl, M. K.

Rainnie, D. J.
Junior author to: Gajadhar, A. A.

Rakowski, P. L.
Junior author to: Boothroyd, P. N.

Randle, D.
Junior author to: Lane, J.

Randle, W.
Junior author to: Kemsies, E.

Ransom, A. B.
Junior author to: Beck, R. A.

Ranson, W.
Junior author to: Ransom, F.

Rau, M. E.
Junior author to: Scott, M. E.

Raveling, D. G.
Junior author to: Wege, M. L.

Ray, D. G. H.
Junior author to: Buckner, C. H.

Reid, D.
Junior author to: Howard, J.

Reid, D. A.
Junior author to: Munro, H. L.

Reilly, E. M., Jr.
see Griscom, L.

Renaud, D. H.
Junior author to: Renaud, W. E.

Renaud, W. E.
Junior author to: McLaren, M. A.

Reuger, M. E.
Junior author to: Bossenmaier, E. F.

Reynolds, L. M.
Junior author to: Gilbertson, M.; Vermeer, K.

Rhoads, S. L.
Junior author to: Benning, D. S.; Goldsberry, J. R.; Larned, W. W.; Novara, A. N.; Smith, C. S.; Voelzer, J. F.

Richardson, J.
see Stevens, O. A. (in Appendix I)
Biography by: B(oulger), G. S.; Gill, T.; Houston, C. S.; Johnson R. E.; McIlraith, J.; Rich, E. E.; Stewart, D. A.; Swinton, W. E.; Wallace, W. S.; and W. A. McKay. NOTE: A book by C. S. Houston (in press) is scheduled to appear in 1984: Arctic ordeal: the journal of John Richardson. Surgeon-naturalist with Franklin. McGill-Queen's Univ. Press, Montreal.

Richardson, W. J.
Junior author to: Blokpoel, H.

Riddell, G.
Junior author to: McDonald, D.

Ridgway, R.
Junior author to: Baird, S. F.

Risebrough, R. W.
Junior author to: Anderson, D. W.

Robbins, C. S.
Junior author to: Aldrich, J. W.; Bystrak, D.; Tabb, K. C.; Van Velzen, W. T.

Robertson, R. J.
Junior author to: Schmutz, J. K.; Weatherhead, P. J.

Robinson, B.
Junior author to: Lane, Mrs. J.

Rockwell, R. F.
Junior author to: Cooke, F.; Findlay, C. S.; Geramita, J. M.

Rogers, E. S.
Junior author to: Hanson, H. C.

Rogers, J. P.
Junior author to: Geis, A. D.

Rogers, M.
Junior author to: Hanson, H. C.

Root, T.
Junior author to: Bock, C. E.

Rose, B. J.
Junior author to: Morgan, H. R.

Rosen, R.
Junior author to: Dick, T. A.

Ross, R. K.
Junior author to: Cooke, F.

Rothstein, S. I.
Junior author to: Friedmann, H.

Rounds, R. C.
Junior author to: Munro, H. L.

Rowan, W.
Biography by: Babkin, B. P.; Hohn, E. O.; Lister, R.; Salt, W. R.; Salter, F. M.

Royall, W. C., Jr.
Junior author to: Bray, O. E.

Rusch, D. H.
Junior author to: Craven, S. R.; Gillespie, M. M.

Ryder, J. P.
Junior author to: Cooke, F.; Finney, G. H.; Melinchuk, R.

Sadura, A.
Junior author to: Cooke, F.

Salt, J. R.
Junior author to: Salt, W. R.

Salt, W. R.
Biography by: McNicholl, M. K.

Salvadori, A.
Junior author to: Brewer, A. D.

Sayler, R. D.
Junior author to: Anderson, M. G.

Saylor, L. W.
Junior author to: Cottam, C.

Schmidt, R. K.
Junior author to: Cooke, F.; Pakulak, A. J.

Schroeder, L. D.
Junior author to: Benning, D. S.; Goldsberry, J. R.

Schueler, F. W.
Junior author to: Rising, J. D.

Schwanke, D. H.
Biography by: Wrigley, R. E.

Sclater, P. L.
see Forster, J. L.

Scott, C. A.
Alternate name of: McGrath, C.
Junior author to: Goulden, J.; McMaster, A.

Scott, P.
see Hochbaum, H. A.

Scott, V. (H.)
Junior author to: Copland, H.; McNicholl, M. K.; Smith, G.

Scotter, G. W.
Junior author to: Stevens, W. E. (in Appendix I).

Sealy, S. G.
Junior author to: Bierman, G. C.; Busby, D. G.; Ferguson, R. L.; Goosen, J. P.; Larche, R. A.; MacKenzie, D. I.; Wishart, R. A.

Seguin, R. J.
Junior author to: Cooke, F.

Seiger, M. B.
Junior author to: Cooke, F.; Finney, G. H.

Selwyn, A. R. C.
Biography by: B., A. F.

Seton, E. (E.) T.
Alternate name of: Seton-Thompson, E.; Thompson, E. E.
see Houston, C. S.; Wiley, F. A.
Biography by: Anonymous; Chapman, F. M.; Emmons, M.; Garst, S., and W. Garst; Houston, C. S.; Lane, N.; Lindsey, C. C.; Palmer, T. S.; Redekop, M.; Seton, E. T.; Seton, J.; Thompson, S. L.; Wadland, J. H.

Seton, J. M.
see Wiley, F. A.

Seton-Thompson, E.
Alternate name of: Seton, E. (E.) T.; Thompson, E. E.
see Wiley, F. A.
Biography by: Anonymous; Chapman, F. M.; Emmons, M.; Garst, S., and W. Garst; Houston, C. S.; Lane, N.; Lindsey, C. C.; Palmer, T. S.; Redekop, M.; Seton, E. T.; Seton, J.; Thompson, S. L.; Wadland, J. H.

Sexton, D. A.
Junior author to: Cuthbert, C.; Knapton, R. W.; Sealy, S. G.

Seymour, N. R.
Junior author to: Bailey, R. O.; Titman, R. D.

Shadick, S. J.
Junior author to: Houston, C. S.

Shankland, B.
Junior author to: Lane, Mrs. J.

Shier, C. E. P.
Junior author to: Gollop, J. B.

Short, L. L.
Junior author to: Eisenmann, E.; Mayr, E.

Shortt, A. H.
Junior author to: Hatch, D. R. M.; MacKay, M. G.

Shortt, T. M.
Junior author to: Cartwright, B. W.; Snyder, L. L.
Biography by: Brown, J.; Odum, A.; Shortt, T. M.

Shutt, F. T.
Junior author to: Gibson, A. (in Appendix I)

Siegel, P. B.
Junior author to: Prince, H. H.

Sieh, J. G.
Junior author to: Bellrose, F. C.

Silieff, E.
Junior author to: Finney, G. H.

Silver, M.
Junior author to: Silver, L.

Simpson, A.
Junior author to: Davidson, A. M.

Smith, A.
Junior author to: Lane, Mrs. J. (= N.)

Smith, A. G.
Junior author to: Aldrich, J. W.

Smith, B. A.
Junior author to: Jehl, J. R., Jr.

Smith, G.
Junior author to: Copland, H.

Smith, G. E. J.
Junior author to: Boyd, H.

Smith, J. D.
Junior author to: Glover, F. A.

Smith, J. R.
Junior author to: Wobeser, G.

Smith, J. T.
Junior author to: Colgan, P.

Smith, L. B.
Junior author to: Bird, R. D.; Smith, G.

Smith, M. M.
Junior author to: Benning, D. S.; Goldsberry, J. R.

Smith, R. H.
Junior author to: Hanson, H. C.

Smith, R. I.
Junior author to: Geis, A. D.; Moisan, G.

Smoliak, S.
Junior author to: Johnston, A.

Snart, A. E.
Junior author to: Caldwell, P. J.

Soper, J. D.
Biography by: Anonymous; Ealey, D. M.; Finnie, R. S.; Hohn, E. O.; Soper, J. D.; Soper, R., and T. Beck; Stevens, W. E., and G. W. Scotter.

Soprovich, D. W.
Junior author to: Wishart, R. A.

Southern, J. M.
Junior author to: Griffin, C. R.

Spotts, E.
Junior author to: Voth, R.

Spreadborough, W.
Biography by: Taverner, P. A.

Sprunt, A., Jr.
Junior author to: Griscom, L.

Squire, L.
see Lloyd, H.

Steele, R. W.
Junior author to: Bargiello, T. A.

Steffan, W.
Junior author to: Dane, C.

Stelfox, H. A.
Junior author to: Barber, S. R.

Stephen, W. J. D.
Junior author to: Dzubin, A.
Biography by: Kuyt, E., and colleagues.

Stevens, O. A.
Junior author to: Swenk, M. H.

Stewart, G. R.
Junior author to: Bailey, R. O.

Stewart, R. E.
Junior author to: Aldrich, J. W.

Stiles, D.
Junior author to: Lane, N.

Stohm, R. A.
Junior author to: Dolbeer, R. A.

Storer, R. W.
Junior author to: Eisenmann, E.; Nuechterlain, G. L.

Storey, D. R.
Junior author to: Koonz, W. H.

Stoudt, J. H.
Junior author to: Aldrich, J. W.; Trauger, D. L.

Street, M. G.
Junior author to: Houston, C. S.

Struthers, J. A.
Junior author to: Hawksley, O.

Sulzbach, D. S.
Junior author to: Cooke, F.

Sutherland, G. D.
Junior author to: MacKenzie, D. J.

Sutton, G. M.
Junior author to: Semple, J. B.; Taverner, P. A.
Biography by: Arbib, R., et al.; Berger, A. J.; Graham, F., Jr.; Mengel, R. M.; Sutton, G. M.; Teale, E. W. See also biography by O. S. Pettingill, Jr. 1984. Auk 101: 146-152.

Sutton, R. W.
Junior author to: Taverner, P. A.
Biography by: Anonymous

Swainson, W.
Junior author to: Richardson, J.

Sweet, J. T.
Junior author to: Miller, H. W.

Tate, D. J.
Junior author to: Tate, J. T., Jr.

Taverner, P. A.
Biography by: Lister, R.; McAtee, W. L.; Munro, J. A.;
Porsild, A. E; Rowan, W.; Thompson, S. L.

Taylor, P.
Junior author to: Knapton, R. W.; McNicholl, M. K.; Turner, B. N.

Telfer, E. S.
Junior author to: Kelsall, J. P.

Temple, S. M.
Junior author to: Melvin, S. M.

Thompson, D.
see Coues, E.; Glover, R.; Tyrrell, J. B.
Biography by: Rich, E. E.

Thompson, E. E.
Alternate name of: Seton, E. (E.) T.; Seton-Thompson, E.
see Hutchins, T.; Wiley, F. A.
Biography by: Anonymous; Chapman, F. M.; Emmons, M.; Garst, S., and
W. Garst; Houston, C. S.; Lane, N.; Lindsey, C. C.; Palmer, T. S.;
Redekop, M.; Seton, E. T.; Seton, J.; Thompson, S. L.;
Wadland, J. H.

Tillenius, C.
Biography by: Mitchell, E. H.

Titman, R. D.
Junior author to: Murkin, H. R.; Stewart, G. R.;
Weatherhead, P. J.

Titterington, R. W.
Junior author to: Crawford, H. S.

Todd, A. W.
Junior author to: Adamcik, R. S.

Turnock, W. J.
Junior author to: Buckner, C. H.

Twomey, A. C.
see Lewis, H. F.
Junior author to: Shelford, V. F.

Tyrrell, J. B.
see Glover, R.

Uhler, F. M.
Junior author to: Martin, A. C.

Van Dyke, F.
Junior author to: Blohm, R. J.

Van Tienhoven, A.
Junior author to: Phillips, R. E.

Van Velzen, W. T.
Junior author to: Robbins, C. S.

Verner, J.
Junior author to: Kroodsma, D. E.

Voelzer, J. F.
Junior author to: Martinson, R. K.

Vogel, C. G.
Junior author to: Bossenmaier, E. F.

Waiser, W. A.
see Macoun, J. (in Appendix I)

Walker, J. M.
Junior author to: Bossenmaier, E. F.

Waller, S.
Junior author to: Shortt, T. M.
Biography by: Anonymous

Ward, I. A.
Junior author to: Cleveland, N. J.

Ward, P.
Junior author to: Blohm, R. J.; Bossenmaier, E. F.;
Hochbaum, G. S.; Sowls, L. K.; Weller, M. W.

Warner, D. W.
Junior author to: Raveling, D. G.

Weeden, R. B.
Junior author to: Lumsden, H. G.

Weedon, D.
Junior author to: Saquet, J.

Welch, H. E.
Junior author to: Austin, F. G.; Chrichton, V. F. J.; Hood, D. E.; Kgoroba, K. G.; Ould, P. D.

Wellein, E. G.
Junior author to: Hawkins, A. S.

Weller, M. W.
see King, B.

Wemyss, sisters
Biography by: Houston, C. S.

Wendt, S.
Junior author to: Cooch, F. G.; Newell, K.; Poulin, R. M.

West, D. A.
Junior author to: Sibley, C. G

Whaley, K. R.
Junior author to: Andrusiak, E. W.

White, E. M.
Junior author to: Greiner, E. C.

Whiteway, M.
Junior author to: Bennett, G. F.

Whitfield, D. W. A.
Junior author to: Gerrard, J. M.

Whithing, E.
Junior author to: Peden, D. G.

Wiemeyer, S. N.
Junior author to: Stendell, R. C.

Wight, L.
Junior author to: Cooch, F. G.

Williams, G.
see Hutchins, T.

Williams, L. E., Jr.
Junior author to: Nesbitt, S. A.

Williams, M. Y.
Biography by: Ney, C. S.

Williams, N.
Junior author to: Barlow, J. C.

Williams, R. G.
Junior author to: Bunnell, F. L.

Wilson, V. T.
Junior author to: Van Den Akken, J. B.

Windsor, J. A.
Junior author to: Vermeer, K.

Wishart, R.
Junior author to: Hochbaum, G. S.

Wood, E. K.
Junior author to: Bluhm, C. K.

Wood, R. E.
Junior author to: Johnsgard, P. A.

Woodford, J.
Junior author to: Hancock, D. A.; Stirling, D.

Wooley, D. R.
Junior author to: Trow, J. V.

Wordie, J. M.
see Rich, E. E.

Wright, H. M.
Junior author to: Henny, C. J.

Wright, T. D.
Junior author to: Kelsall, J. P.

Wrigley, R. E.
Junior author to: Nero, R. W.

Young, H.
Junior author to: Clark, J. R.

Yunick, R. P.
Junior author to: Vickery, P. D.

Zim, H. S.
Junior author to: Robbins, C. S.

Zimmerman, D. A.
Junior author to: Arbib, R. (in Appendix I).

Zinser, J.
Junior author to: Lloyd, H.

APPENDIX III

SOURCES SEARCHED FOR BIBLIOGRAPHY

The following list includes all journals for which all or most issues were searched up to and including 1983. Long-running journals in which only a few issues were searched are not included. The list includes issue numbers only when one or more issue(s) have not been searched or where a name change or other notable change has taken place in mid-volume. A few 1983 journals not complete by June 1984 are listed to the most recent issue available at the time of typing.

Alberta Conservationist 1-10 (1958-1966); Alberta Lands Forests, Parks, Wildlife 11-13 (1968-1970)--suspended publication at Vol. 13, No. 2.

Alberta Naturalist--first published as Federation of Alberta Naturalists Newsletter 1 (1970), then as Alberta Naturalist 2-13 (1971-1983).

Alberta Wilderness Association Newsletter May 1972-summer 1980; did not include volume numbers until fall 1978 (vol. 10), then numbered through 11(2), spring 1979, spring & summer 1980 not numbered.

Albertan Geographer 1-19 (1964-1983).

American Birds--first published as Audubon Field Notes, which grew out of a seasonal report section of Audubon. Audubon Field Notes 1-24 (1947-1970), renamed American Birds 25-37 (1971-1983).

American Midland Naturalist 1-110 (1909-1983).

American Ornithologists' Union Ornithological Monographs 1-31 (1964-1983).

Animal Behavior 1-31 (1953-1983).

Animal Behavior Supplement 1 (1964)--only one issue published.

Arctic 1-36 (1948-1983).

Arctic and Alpine Research 1-15 (1969-1983).

Arctic Gas Biological Report Series 1-41 (1973-1977)--ceased publication.

Audubon--first published as Bird-Lore. The seasonal report in Audubon was separated into a new journal, Audubon Field Notes (now American Birds) in 1947. Bird-Lore 1-42 (1899-1940), renamed Audubon 43-85 (1941-1983).

Audubon Field Notes--see American Birds and Audubon.

Auk 1-100 (1884-1983).

Beaver 1-6 (1920-1926), then changed numbering to "outfits", starting at 257. Outfits 257-314(2) (1926-1983). Outfit numbers change in mid-year.

Behavioral Biology--see Behavioral and Neural Biology.

Behavioral and Neural Biology--first published as Behavioral Biology 1-24 (1968-1978), then changed name to Behavioral and Neural Biology 25-39 (1979-1983).

Behaviour 1-87 (1947-1983).

Behaviour Supplement 1-18 (1952-1977). No issues published recently.

Biological Conservation 1-27 (1968-1983).

Bird-Banding--see Journal of Field Ornithology.

Bird Conservation 1 (1983).

Birdfinding in Canada--numbered independently Nos. 1-12 (1981-1982), then as an annual volume, starting at vol. 3 (1983).

Birding 2-4 (1970-1972), 5(2-6) (1973), 6-10 (1974-1978), 11(1-4, 6) (1979), 12-15 (1980-1983).

Bird-Lore--see Audubon.

Bird Study 1-30 (1954-1983).

Blue Jay 1-41 (1942-1983).

Blue Jay News--first published as Saskatchewan Natural History Society Newsletter 1-62 (1963-1982), then changed name to Blue Jay News 63 (1983).

Bulletin of the Cooper Ornithological Club--see Condor.

Bulletin of the Northeastern Bird Banding Association 1-5 (1925-1929)--ceased publication; replaced by Bird-Banding, since renamed Journal of Field Ornithology.

Bulletin Wildlife Diseases Association--see Journal of Wildlife Diseases.

Calgary Bird Club Bulletin & Calgary Bird Club News Bulletin 1-78 (individually numbered) (1959-1969), ceased publication & replaced by Calgary Field Naturalist.

Calgary Field Naturalist 1-11(2) (1969-1979)--there is no Vol. 7(1) due to an error in numbering. Replaced by Calgary Field Naturalists Newsletter and Pica.

Calgary Field Naturalists Newsletter 1-5(4) (1979-1983)--there was no Vol. 5(3); volume changes in mid-year (5[5] was published in 1984)--replaces in part Calgary Field Naturalist.

Canadian Alpine Journal 1-66 (1907-1983).

Canadian Audubon--first published as Canadian Nature 1-19 (1939-1957), then changed name to Canadian Audubon 20-33 (1958-1971); ceased publication with the transformation of the Canadian Audubon Society into the Canadian Nature Federation, and replaced by Nature Canada.

Canadian Field-Naturalist--first published as Ottawa Naturalist 1-32 (1887-1910), then changed name to Canadian Field-Naturalist 33-97 (1919-1983).

Canadian Geographic--published as Canadian Geographical Journal 1-96 (1930-1977); changed name to Canadian Geographic 97-103 (1978-1983--with 103(6) dated 1983-1984 Dec.-Jan.).

Canadian Geographical Journal--see Canadian Geographic.

Canadian Journal of Research--see Canadian Journal of Zoology.

Canadian Journal of Zoology--first published as Canadian Journal of Research 1-12 (1929-1935), this then split into various sections of which zoology was Canadian Journal of Research D 13-28 (1935-1950); name of latter then changed to Canadian Journal of Zoology 29-61 (1951-1983).

Canadian Nature--see Canadian Audubon.

Canadian Record of Science 1-9 (1884-1910). Ceased publication.

Canadian Wildlife Service Monographs 1-6 (1960-1981).

Canadian Wildlife Service Occasional Papers 1-50 (1957-1983).

Canadian Wildlife Service Progress Notes 1-141 (1966-1983).

Canadian Wildlife Service Report Series 1-45 (1966-1983).

Canadian Wildlife Service Wildlife Management Bulletin Series 1, 1-19 (1947-1966), Series 2, 1-10 (1949-1965), Series 3, 1-4 (1950-1955)--ceased publication.

Carling Conservation Digest 1-2 (1947-1948), then suspended publication; then miscellaneous annuals and quarterlies 1955-1958, and resumed regular issues, Vols. 1-5 (1957-1961); then ceased publication.

Colonial Waterbirds--first published as Proceedings Colonial Waterbird Group Conference 1-3 (1977-1979), with volume numbers applied at Volume 3. Name changed to Colonial Waterbirds at Vol. 4-6 (1981-1983).

Condor--first published as Bulletin Cooper Ornithological Club 1 (1899), then changed name to Condor 2-85 (1900-1983).

Cooper Ornithological Club, Bulletin--see Condor.

Conservation Canada 1-5 (1975-1980)--no longer published.

Continental Birdlife 1-2 (1979-1981)--ceased publication.

Defending All Outdoors 4-10 (1970-1976). Vol. 10(1) was not printed because of a postal strike.

Ecological Monographs 1-53 (1931-1983).

Ecology 1-64 (1920-1983).

Edmonton Bird Club Newsletter April 1976-December 1983.

Edmonton Naturalist--replaced Edmonton Natural History Club Newsletter in October 1972, dated by month without numbers until April 1973, when it was assigned numbers retroactively with April 1973 as No. 7. In 1975, changed to volumes, with 1975 as Vol. 3, paginated by volume until 5(6). Vol. 5(6) was delayed, thus rest of issues (7-8) in Vol. 5 paginated independently. Temporarily ceased publication at 7(2), 1979, but resumed in late 1980, 8-11 (1980-1983).

Edmonton Natural History Club Newsletter 14-23 (1971), and monthly in 1972 until superceded by Edmonton Naturalist.

Environment Views 1-3(3) (1978-1980).

Evolution 1-37 (1947-1983).

Eyas 1-6 (1977-1983).

Federation of Alberta Naturalists Newsletter--see Alberta Naturalist.

Federal-Provincial Wildlife Conference--see Transactions of.

Flicker--see Loon.

Geological Survey of Canada, Museum Bulletin--see National Museum of Canada Bulletin.

Hawk Migration Association of North America--see Journal of, Newsletter of.

Inland Bird Banding--initially Inland Bird Banding News 1-50 (1929-1978), changed name to Inland Bird Banding 51-53(3) (1979-1981). Ceased publication after 1981, and merged with North American Bird Bander, starting with Vol. 7 (1982). IBB 53(4), yet to appear, is to be an index of the journal.

Inland Bird Banding News--see Inland Bird Banding.

Inland Bird Banding Newsletter 1-5 (1979-1983).

Intermediate Naturalist--see Ontario Field Biologist.

International Journal for the Study of Animal Problems 4 (4 suppl.) (1983).

International Ornithological Congress--see Proceedings of.

Journal of Biogeography 1-10 (1974-1983).

Journal of Field Ornithology--first published as Bird-Banding, replacing Bulletin Northeastern Bird Banding Association. Bird-Banding 1-50 (1950-1979), Journal of Field Ornithology 51- 54 (1980-1983).

Journal of the Hawk Migration Association of North America 1-2 (1975-1980).

Journal of Paleontology 1-57 (1927-1983).

Journal of Wildlife Diseases--first published as Bulletin Wildlife Diseases Association 1-5 (1965-1969), then as Journal of Wildlife Diseases 6-19 (1970-1983).

Journal of Wildlife Management 1-47 (1937-1983).

Living Bird 1-19 (1962-1982). Suspended publication, but may resume in future.

Living Bird Quarterly 1-2 (1982-1983).

Long Point Bird Observatory Annual Report 1967-1982 (1967 and 1968 published as special issues of Ontario Bird Banding; ten-year report 1960-1969).

Loon--previously published as Flicker 1-8 (1929-1936), 11-35 (1939-1963), then renamed Loon 36-55 (1964-1983).

Manitoba Naturalists' Society Bulletin 1970-June 1977 (issued without numbers by month), September 1977 on by volume and number 1-7(1-2), (1977-1983), with volume numbers changing in the fall each year. There are no Volume 2, numbers 1-4 as these were mis-numbered Vol. 1, 12-15.

Manitoba Nature--first published as Zoolog 7(2-4)-13(1) (1966-1972), changed name to Manitoba Nature at 13(2) (1972); 13(2-5)-23 (1972-1982); suspended publication, at least temporarily.

Minutes of Federal-Provincial Wildlife Conference--see Transactions of Federal-Provincial Wildlife Conference.

Murrelet 1-64 (1920-1983).

Musk-Ox 1-32 (1967-1983).

National Geographic 1-164 (1888-1983).

National Museum of Canada Bulletin 1-235 (1913-1969)--apparently no longer published. Museum previously called Geological Survey of Canada Museum & Victoria Memorial Museum, and these older names are reflected in earlier Bulletin titles.

National Museum of Canada Natural History Paper 1-45 (1958-1969)--no longer published.

Natural History Society of Manitoba Newsletter--first published as Natural History Society of Manitoba Ornithological Section Newsletter 1-6 (1962-1963), then under the shorter name & broader scope 7-26 (1964-1971), nos. 7-14 applied retroactively at No. 15 --ceased publication.

Natural History Society of Manitoba Ornithology Section Newsletter--see Natural History Society of Manitoba Newsletter.

Nature Canada--replaced Canadian Audubon as a new magazine. 1-12 (1972-1983).

News from the Bird Banders--see Western Bird Bander.

Newsletter of the Hawk Migration Association of North America 1-8 (1976-1983).

Nidiologist or Nidologist (title varied) 1-4 (1893-1897)--ceased publication.

North American Bird Bander 1-8 (1976-1983)--formed by merging Eastern Bird Bander with Western Bird Bander into a new journal. Inland Bird Bander ceased publication in 1981 and was merged into NABB at Vol. 7 (1982).

Ontario Bird Banding 1-16(1) (1965-1983)--Vol. 6 (1970) has no number 3.

Ontario Field Biologist--previously published as Intermediate Naturalist 4 (1949), 8 (1953), changed name to Ontario Field Biologist 9-37(1) (1955-1983).

Ontario Naturalist--see Seasons.

Oologist--started as Young Oologist 1-2 (1884-1885), changed to Oologist 3-58 (1886-1941), then ceased publication.

Ornithological Monographs--see American Ornithologists' Union Ornithological Monographs.

Ornithologists' and Oologists' Semi-Annual--see Wilson Bulletin.

Osprey 1-5 (1896-1901), Vol. 1 (new ser.) (1902)--ceased publication.

Ottawa Naturalist--see Canadian Field-Naturalist.

Pacific Coast Avifauna 1-37 (1900-1974)--ceased publication, replaced by Studies in Avian Biology.

Park News 1-19 (1965-1983).

Pica 1-4 (1979-1983)--partially replaced Calgary Field Naturalist.

Point Reyes Bird Observatory Annual Report 1-15 (1965-1979).

Prairie Naturalist 1-15 (1969-1983).

Proceedings of the Colonial Waterbird Group Conference--see Colonial Waterbirds.

Proceedings Federal-Provincal Wildlife Conference--see Transactions Federal-Provincial Wildlife Conference.

Proceedings North American Wildlife Conference--see Transactions North American Wildlife and Natural Resources Conference.

Proceedings of the International Ornithological Congress 1-17 (1891-1980).

Proceedings of the Royal Society of Canada--see Royal Society of Canada.

Raptor Research 1-17 (1967-1983)--Vol. 13(2) was not published.

Ring 1-10(117) (1954-1983).

Ringing and Migration 1-3(3) (1975-1981).

Royal Society of Canada Transactions/Minutes--published as Royal Society of Canada Proceedings and Transactions series 1, 1-12 (1882-1894), series 2, 1-12 (1895-1906), series 3, 1-56 (1907-1962), series 4, 1-8 (1963-1970), then changed title to Royal Society of Canada Transactions/Minutes series 4, 9-20 (1971-1982).

Saskatchewan Natural History Society Newsletter--see Blue Jay News.

Saskatchewan Natural History Society Special Publications 1-14 (1958-1982).

Seasons--published as Ontario Naturalist 1-19 (1963-1979), changed name to Seasons 20-23 (1980-1983).

Sialia 1-5 (1979-1983).

Studies in Avian Biology 1-7 (1978-1983)--replaced Pacific coast Avifauna.

Syesis 1-15 (1968-1982).

Transactions Federal-Provincial Wildlife Conference 11-12 (1945, 1948), 14-47 (1950-1983--some years designated as Minutes or Proceedings in earlier years; Minutes for some years have apparently not survived--see Foster (1978): 259, footnote 33).

Transactions North American Wildlife and Natural Resources Conference--first known as Proceedings North American Wildlife Conference 1 (1936), then changed to Transactions North American Wildlife Conference 2-24 (1937-1959), then expanded to present full title 25-47 (1960-1982).

Transactions Ottawa Field Naturalists' Club 1-7 (1879-1886)--published as 7 annuals, eventually numbered as 2 volumes.

Transactions Royal Society of Canada--see Royal Society of Canada.

U.S. Fish and Wildlife Service (or U.S. Department of the Interior, Fish and Wildlife Service) Special Scientific Report, Wildlife 1-45 (1949-1959), 47-53 (1960), 55-95 (1961-1966), 97-234 (1960-1981), 236-254 (1981-1983).

Victoria Memorial Museum Bulletin--see National Museum of Canada Bulletin.

Western Bird Bander--first published as News from the Bird Banders 1-34 (1926-1959); later changed name to Western Bird Bander 47(4)-50 (1972-1975)--ceased publication after Vol. 50, merging with Eastern Bird Bander into North American Bird Bander.

Western Birds 4-14 (1973-1983)--journal was expanded from California Birds after Vol. 3 of the more restricted journal.

Wildfowl--first published as Wildfowl Trust Annual Report 1-18 (1948-1966), then changed name to Wildfowl 19-34 (1968-1983).

Wildfowl Trust Annual Report--see Wildfowl.

Wildlife Monographs 1-85 (1958-1983).

Wildlife News 1-9 (1965-1973)--ceased publication,.

Wildlife Review 1-191 (1935-1983).

Wildlife Society Bulletin 1-11 (1973-1983).

Wilson Bulletin--first published as Ornithologists' and Oologists' Semi-Annual 1-3 (1889-1891), then Wilson Quarterly 4-5 (1892-1893), then Wilson Bulletin 6-95 (1894-1983).

Wilson Quarterly--see Wilson Bulletin.

Young Oologist--see Oologist.

Zeitschrift fur Tierpsychologie 1-5 (1937-1942), 7-63 (1950-1983).

Zoolog--see Manitoba Nature.